

PATENT APPLICATION NO. 10/553,670
ATTORNEY DOCKET: 38523.000156

1645/IFW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Number : 10/553,670 Confirmation No.: 1557
Applicant : Gary W. Zlotnick, et al.
Filed : October 17, 2005
Title : Novel Immunogenic Compositions for the Prevention and Treatment of Meningococcal Disease
TC/Art Unit : 1645
Examiner: : *To Be Assigned*

Docket No. : 38523.000156
Customer No. : **21967**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. §§ 1.97 and 1.98, and in compliance with the duty of disclosure set forth in 37 C.F.R. § 1.56, applicants submit attached Form PTO-SB/08A (modified) for consideration and request the references cited therein be made of record by the U.S. Patent and Trademark Office in the above-captioned application.

Applicants would like to inform the Examiner of the existence of the following co-pending U.S. patent applications:

U.S. Patent Application No. 10/652,870 filed September 2, 2003, in the name Gary W. ZLOTNICK et al., entitled "NOVEL IMMUNOGENIC COMPOSITIONS FOR THE PREVENTION AND TREATMENT OF MENINGOCOCCAL DISEASE" (attorney docket: 38523.000026); and

U.S. Patent Application No. 10/798,894 filed March 12, 2004, in the name Gary W. ZLOTNICK et al., entitled "NOVEL IMMUNOGENIC COMPOSITIONS FOR THE PREVENTION AND TREATMENT OF MENINGOCOCCAL DISEASE" (attorney docket: 38523.000089); and

U.S. Patent Application No. 10/492,427 filed April 26, 2002, in the name Gary W. ZLOTNICK et al., entitled "NOVEL IMMUNOGENIC COMPOSITIONS FOR THE PREVENTION AND TREATMENT OF MENINGOCOCCAL DISEASE" (attorney docket: 38523.000094).

Consideration of the foregoing plus the prompt return of a copy of the enclosed Form SB/08A with the Examiner's initials in the left column in accordance with MPEP 609 are respectfully requested.

In accordance with 37 C.F.R. § 1.97(b), this Information Disclosure Statement is believed to be submitted prior to issuance of a first Office Action. Therefore, it is respectfully submitted that no fee is required for consideration of this information. However, in the event any fee is deemed necessary, the Commissioner is authorized to charge the undersigned's Deposit Account No. 50-0206.

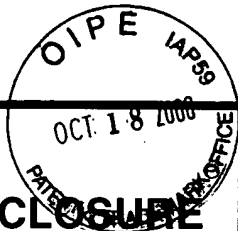
Respectfully submitted,

HUNTON & WILLIAMS LLP

Dated: October 18, 2006

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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

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Attorney Docket Number	38523.000156

Sheet 1 of 21

U.S. PATENT DOCUMENTS

*Examiner Initials	Cite No.	DOCUMENT NUMBER Number - Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1.	US 4376110	03-08-1983	David et al.	
	2.	US 4554101	11-19-1985	Hopp	
	3.	US 4650764	03-17-1987	Temin et al.	
	4.	US 4666829	05-19-1987	Glenner, et al.	
	5.	US 4797368	01-10-1989	Carter et al.	
	6.	US 4861719	08-29-1989	Miller	
	7.	US 4980289	12-25-1990	Temin et al.	
	8.	US 5124263	06-23-1992	Temin et al.	
	9.	US 5139941	08-18-1992	Muzyczka et al.	
	10.	US 5399346	03-21-1995	Anderson et al.	
	11.	US 5459127	10-17-1995	Felgner et al.	
	12.	US 5580859	12-03-1996	Felgner et al.	
	13.	US 5583038	12-10-1996	Stover	
	14.	US 5589466	12-31-1996	Felgner et al.	
	15.	US 5739118	04-14-1998	Carrano et al.	
	16.	US 5995580	11-30-1999	Schaller	
	17.	US 6130085	10-10-2000	Hamers et al.	

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		Country Code:	Number - Kind Code (if known)				YES	NO
	18.	EP	0 125 023 A1	11-14-1984	Cabilly et al.			
	19.	EP	0 171 496 A2	02-19-1986	Taniguchi et al.			
	20.	EP	0 173 494 A2	05-03-1986	Morrison et al.			

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Sheet	2	of	21
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	21.	EP	0 178 220 A2	04-16-1986	Jacob et al.			
	22.	EP	0 184 187 A2	06-11-1986	Kudo et al.			
	23.	EP	0 185 573 A1	06-25-1986	Perricaudet et al.			
	24.	EP	0 453 242 A1	10-23-1991	Breakfield et al.			
	25.	EP	0 488 528 A1	06-03-1992	Lebkowski et al.			
	26.	CA	2 012 311	06-24-2003	Birnstiel et al.			
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	34.	WO	93/09239	05-13-1993	Srivastava			
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	42.	WO	95/28494	10-16-95	Overell et al.			
	43.	WO	95/18863	07-13-1995	Behr et al.			
	44.	WO	95/21931	08-17-1995	Bazile et al.			
	45.	WO	95/22378	08-22-1995	Remes			
	46.	WO	95/22617	08-24-1995	Klatzman et al.			
	47.	WO	95/26411	10-05-1995	Garver et al.			
	48.	WO	96/10038	04-04-1996	Boutin			
	49.	WO	96/17823	06-13-1996	Byk et al.			
	50.	WO	96/25508	08-22-1996	Byk et al.			
	51.	WO	96/39036	12-12-1996	Garver et al.			
	52.	WO	97/19182	05-29-1997	Epstein et al.			
	53.	WO	99/01158	01-14-1999	Bureau et al.			
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	55.	WO	99/57280	11-11-1999	Fraser			
	56.	WO	01/64920	09-07-2001	Arico, et al.			
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	58.	WO	99/27944	06-10-1999	Schenk			
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NON-PATENT LITERATURE DOCUMENTS							
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						YES	NO
	65.	MMWR (Morbidity And Mortality Weekly Report), Case Definitions for Infectious Conditions Under Public Health Surveillance, Recommendations and Reports, May 2, 1997, Vol. 46, No. RR-10					
	66.	J. SAMBROOK et al., Molecular Cloning, A Laboratory Manual, Second Edition, 1989					
	67.	ALM, R. et al., 1999, Genomic-sequence comparison of two unrelated isolates of the human gastric pathogen <i>Helicobacter pylori</i> [published erratum appears in Nature 1999 Feb 25;397(6721):719]. <i>Nature</i> . 397:176-80					
	68.	ALTSCHUL, S. et al., 1997, Gapped BLAST and PSI-BLAST: a new generation of protein database search programs. <i>Nucleic Acids Res.</i> 25:3389-402					
	69.	ANDERSON, T. F. 1951. Techniques for the preservation of three-dimensional structure in preparing specimens for the electron microscope. <i>Trans N Y Acad. Sci.</i> 13:130-134					
	70.	BENSON, G. 1999. Tandem repeats finder: a program to analyze DNA sequences. <i>Nucleic Acids Res.</i> 27:573-80					
	71.	CARRILLO, H. et al., The Multiple Sequence Alignment Problem In Biology, SIAM J. Appl. Math., Vol. 48, No. 5, October 1988, pp. 1073-1082					
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Art Unit

Examiner Name

Unassigned

Sheet

5

of

21

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			YES	NO
	75.	COURTNEY, H. et al., 1994, Cloning, sequencing, and expression of a fibronectin/fibrinogen-binding protein from group A streptococci, <i>Infect Immun.</i> Vol. 62, No. 9, pp. 3937-46		
	76.	CSERZO, M. et al., 1997, Prediction of transmembrane alpha-helices in prokaryotic membrane proteins: the dense alignment surface method. <i>Protein Engineering.</i> Vol. 10, No. 6, pp. 673-6		
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	82.	ENG, J. K. et al., 1994, An approach to correlate tandem mass-spectral data of peptides with amino-acid-sequences in a protein database. <i>Am Soc Mass Spectrometry.</i> 5:976-89		

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			YES	NO
	83.	FISCHETTI, V. A. et al., Revised April 3, 1990, Conservation of a hexapeptide sequence in the anchor region of surface proteins from gram-positive cocci, <i>Mol Microbiol.</i> , Vol. 4, No. 9, pp. 1603-5		
	84.	FOGG, G. C. et al., October 1997, Constitutive expression of fibronectin binding in <i>Streptococcus pyogenes</i> as a result of anaerobic activation of <i>rofA</i> , <i>J. Bacteriol.</i> , Vol. 179, No. 19, pp. 6172-80		
	85.	FOSTER, T. J. et al., December 1998. Surface protein adhesins of <i>Staphylococcus aureus</i> , <i>Trends In Microbiol.</i> , Vol. 6, No. 12, pp. 484-8		
	86.	FRASER, C. M. et al., December 1997. Genomic sequence of a Lyme disease spirochaete, <i>Borrelia burgdorferi</i> , <i>Nature</i> , 390:580-6		
	87.	GOLDSCHNEIDER, I. et al., 1969, Human immunity to the meningococcus. I. The role of humoral antibodies, <i>Journal of Experimental Medicine</i> , 129(6):1307-26		
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	90.	GOTSCHLICH, E. C. et al., 1969, Human immunity to the meningococcus. V. The effect of immunization with meningococcal group C polysaccharide on the carrier state, <i>Journal of Experimental Medicine</i> 129(6):1385-95		
	91.	HACKER, J. et al., 1997, Pathogenicity islands of virulent bacteria: structure, function and impact on microbial evolution, <i>Mol Microbiol.</i> 23(6):1089-97		
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			YES	NO	
	93.	HANSKI, E. et al., December 1992, Expression of protein F, the fibronectin-binding protein of <i>Streptococcus pyogenes</i> JRS4, in heterologous streptococcal and enterococcal strains promotes their adherence to respiratory epithelial cells, <i>Infect Immun.</i> 60(12):5119-5125			
	94.	HERNANDEZ-SANCHEZ, J. et al., 1998. lambda bar minigene-mediated inhibition of protein synthesis involves accumulation of peptidyl-tRNA and starvation for tRNA, <i>EMBO Journal.</i> 17(13):3758-65			
	95.	HUANG, T.- T. et al., 1989, The streptokinase gene of group A streptococci: cloning, expression in <i>Escherichia coli</i> , and sequence analysis. <i>Mol Microbiol.</i> 3(2):197-205			
	96.	HYNES, W. L. et al., 2000. The extracellular hyaluronidase gene (<i>hyla</i>) of <i>Streptococcus pyogenes</i> . <i>FEMS Microbiol Lett.</i> 184:109-12			
	97.	HYNES, W. L. et al., August 1995. Analysis of a second bacteriophage hyaluronidase gene from <i>Streptococcus pyogenes</i> : evidence for a third hyaluronidase involved in extracellular enzymatic activity. <i>Infect Immun.</i> 63(8):3015-20			
	98.	ISBERG, R. R. et al., January 1994. Binding and internalization of microorganisms by integrin receptors. <i>Trends Microbio.</i> 2(1):10-4			
	99.	JONES, K. F. et al., March 1988. The importance of the location of antibody binding on the M6 protein for opsonization and phagocytosis of group A M6 streptococci. <i>J Exp Med.</i> 167:1114-23			
	100.	KIHLBERG, B. M. et al., April 1999, Protein H, an antiphagocytic surface protein in <i>Streptococcus pyogenes</i> . <i>Infect Immun.</i> 67(4):1708-14			
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	102.	KUIPERS, O. P. et al., 1991. Improved site-directed mutagenesis method using PCR. <i>Nucleic Acids Res.</i> 19(16):4558			YES	NO
	103.	KYTE, J. et al., 1982. A simple method for displaying the hydropathic character of a protein. <i>Journal of Molecular Biology</i> 157:105-132				
	104.	LANDT, O. et al., 1990, A general method for rapid site-directed mutagenesis using polymerase chain reaction. <i>Gene.</i> 96:125-8				
	105.	LOESSNER, M. J. et al., August 1999. Evidence for a holin-like protein gene fully embedded out of frame in the endolysin gene of <i>Staphylococcus aureus</i> bacteriophage 187. <i>J Bacteriol.</i> 181(15):4452-60				
	106.	LUKASHIN, A. V. et al., 1998. GeneMark.hmm: new solutions for gene finding. <i>Nucleic Acids Res.</i> 26(4):1107-15				
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	108.	MADORE, D. V. et al., Sept. 1998. Characterization of immune response as an indicator of <i>Haemophilus influenzae</i> type b vaccine efficacy. <i>Pediatr Infect Dis J.</i> 17(9):S207-10				
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			YES	NO	
	111.	MCATEE, C. P. et al., 1998. Identification of potential diagnostic and vaccine candidates of <i>Helicobacter pylori</i> by "proteome" technologies. <i>Helicobacter</i> . 3(3):163-9			
	112.	MCATEE, C. P. et al., July 1998. Identification of potential diagnostic and vaccine candidates of <i>Helicobacter pylori</i> by two-dimensional gel electrophoresis, sequence analysis, and serum profiling. <i>Clin Diagn Lab Immunol</i> . 5(4):537-42			
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				Filing Date	October 17, 2005
				First Named Inventor	Gary W. ZLOTNICK et al.
				Art Unit	
				Examiner Name	Unassigned
Sheet	10	of	21	Attorney Docket Number	38523.000156

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Sheet	11	of	21	Attorney Docket Number	38523.000156

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Sheet	12	of	21	Attorney Docket Number	38523.000156

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Sheet	13	of	21	Attorney Docket Number	38523.000156

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				Art Unit			
				Examiner Name		Unassigned	
Sheet	14	of	21	Attorney Docket Number		38523.000156	

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				Art Unit	
				Examiner Name	Unassigned
Sheet	15	of	21	Attorney Docket Number	38523.000156

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				Examiner Name		Unassigned	
Sheet	16	of	21	Attorney Docket Number		38523.000156	
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Sheet	17	of	21	Attorney Docket Number	38523.000156

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Sheet	18	of	21	Attorney Docket Number	38523.000156

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				First Named Inventor Gary W. ZLOTNICK et al.	
				Art Unit	
				Examiner Name Unassigned	
Sheet	20	of	21	Attorney Docket Number 38523.000156	
NON-PATENT LITERATURE DOCUMENTS					
*Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	TRANSLATION		
			YES	NO	
	208.	WU et al., Hepatocyte-directed gene transfer in <i>in vivo</i> leads to transient improvement of hypercholesterolemia in low density lipoprotein receptor-deficient rabbits. <i>J. Biol. Chem.</i> 267(2):963-967 (1992).			
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						YES	NO
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